Warm Up!

1.) Write in agenda book

2.) Write the fraction 3/5 as a percent and decimal.

$\frac{3}{5} = \frac{60}{100}$

60%

0.60

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When done with Pre-Assessment ...

1.) Keep it on your desk. When everyone is finished, you will grade your own.

2.) While waiting, you may read or draw on the back.

Jan 3-9:43 AM

To do:

1. Record score on tracker
2. Glue tracker into your notebook
3. Turn pre test in to the tray
4. Open notebook to new page

Dec 10-10:40 AM

Lesson 9.1: Exponents

Learning Target: I can use exponents to represent numbers.

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A Power is a number that is formed by repeated multiplication of the same factor. We can use an exponent and a base to write a power. The base is the number that is multiplied and the exponent tells you how many times the base appears in the expression.

$7^3 = 7 \cdot 7 \cdot 7 = 343$ 8^4 4^8 $49 \cdot 7$

Power	How to read the power
6^2	6 squared, 6 to the power of 2, 6 raised to the 2nd power
7^3	7 cubed, 7 to the power of 3, 7 raised to the 3rd power
9^4	9 to the power of 4, 9 raised to 4th power

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Example 1: Use an exponent to write each expression.

a.) 3 x 3 x 3 x 3 x 3 3^5

b.) $\frac{4}{5} \times \frac{4}{5} \times \frac{4}{5} \times \frac{4}{5}$ $\left(\frac{4}{5}\right)^4$ $\frac{4^4}{5}$ $\frac{4 \cdot 4 \cdot 4 \cdot 4}{5}$

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Example 2: Find the value of each power

Note: Any nonzero number raised to the power of 0 is 1.

c.) 10^4 $10 \cdot 10 \cdot 10 \cdot 10$ $100 \cdot 100$ 10,000

d.) 0.4^3 $0.4 \times 0.4 \times 0.4$ $.16 \times .4 = 0.064$ $.16 \times .4 = .064$

e.) $\left(\frac{2}{5}\right)^3$ $\frac{2}{5} \times \frac{2}{5} \times \frac{2}{5} = \frac{8}{125}$

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H.O.T. FOCUS ON HIGHER ORDER THINKING

Every integer can be written as the sum of square numbers.

For Example: $20 = 4^2 + 2^2$ $24 = 4^2 + 2^2 + 2^2$

Write the integers 8, 13 and 18 as the sum of 2 squares.

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